



RISQUES NATURELS

NATURAL RISKS

Lecturers: Richard PERKINS

| Lecturers : 14.0 | TC : 0.0 | PW : 0.0 | Autonomy : 0.0 | Study : 0.0 | Project : 0.0 | Language : AN

Objectives

The objective of this course is to present the different types of environmental hazards, and the associated risks. Prevention, forecasting and protection techniques will be presented for each type of risk.

Keywords : Hazards, risks, environment, urbanisation, volcanoes, earthquakes, avalanches, landslides, hurricanes, storms, floods

Programme

1. Definition of risk
Different types of hazard, geographical distribution, impact, notions of frequency and intensity
2. Tectonic risks
Volcanoes, earthquakes, landslides, avalanches
3. Meteorological and hydrological risks
Hurricanes, storms, floods, tsunamis, climatic events

Learning outcomes

- Students should understand the links between natural phenomena and their impact on human society
- For each type of risk, students should be aware of the possible ways of handling the risk (prevention, protection, prediction....) and their limitations.
- For a given location, students should be able to identify the different types of natural risk to which the population is exposed.

Independent study

Objectifs :

Méthodes :

Core texts

BERNSTEIN, P., *AGAINST THE GODS: THE REMARKABLE STORY OF RISK*, Wiley
SMITH, K. & PETLEY, D.N. *ENVIRONMENTAL HAZARDS: ASSESSING RISK AND REDUCING DISASTER*, Routledge
VOSE, D. *RISK ANALYSIS: A QUANTITATIVE GUIDE*, Wiley

Assessment

Report on a subject related to natural hazards.